APPENDIX D. ERRATA AND SUPPLEMENTARY REMARKS FOR "A WORLD ATLAS OF ATMOSPHERIC RADIO REFRACTIVITY

C.A. Samson and B.A. Hart

- In the original analysis of radiosonde data for the Atlas, no lag corrections were used, and linear interpolation was used to obtain the 50- and 100-m points on the soundings.
- On page 13, 12th line from the bottom of the right-hand column, "western Mediterranean Sea" should be changed to "eastern Mediterranean Sea".
- 3. Add to Table 1, page 20: Mediterranean, 4 stations, February 1.2 N-units, August 1.6 N-units, 12 month estimate 1.4 N-units, 12-month rms 0.4
- 4. In figure A-1, page 32, change station No. 64 in Mexico to No. 63 (Mazatlan).
- 5. The gradient data in Appendix C are based upon records of radiosonde observations made only once or twice daily. All references to "percent of time" should be interpreted as "percent of the observations".
- 6. Figures C-1 through C-4 refer to positive gradients, or sub-refractive conditions.
- 7. In figures C-5 through C-12, "Gradient exceeded" indicates that for the given percentage of the observations the gradients were more positive (or less negative).
- 8. On page 70, figure C-13, Coral Harbor (64-12 N, 83-22 W) was mistakenly plotted as 9.8 on the original map; it should have been 19.7. This would alter the contour lines in that area.
- 9. Figure C-41 through C-56 refer to negative gradients, or a decrease of refractivity with height (normal gradients to superrefractive and ducting conditions).
- 10. In table C-1 on page 92, change the Fort Smith February median to 1019 (instead of 872) and the minimum to 464 (instead of 9).
- 11. Pages 93-116, figures C-57 through C-78: On all of these figures, the title should read "Cumulative probability distributions of dN/dh for ground based 50-m layer:". Note, however, that figures C-1 through C-56 all refer to 100-m layers.

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The continued expansion of microwave radio links and the resulting congestion						
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refractivity effects, the designer may wish to consider the average gradients at specific locations for different seasons, as well as diurnal changes. This report						
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radio refractivity gradients in the ground-based 100-m layer for 87 stations in the Northern Hemisphere. These are based on climatological data from radiosonde						
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